

In the Drawings:

Replacement Figures 1 through 4 (4 sheets) are enclosed herewith together with copies of the drawings (6 sheets) as originally filed.

Figures 1 through 4 have been amended as requested by the Examiner to include the words "Prior Art".

REMARKS:

Figures 1 through 4 have been amended as requested by the Examiner to include the words "Prior Art".

Claim 25 rejected under 35 U.S.C. 112 has been cancelled.

Amendments have been made throughout the claims to provide consistency of language and proper antecedent throughout. These amendments take into account minor amendments made in Claim 1 so as to render the claimed invention more clear thus requiring consequential amendments in the dependent claims.

The Examiner has cited under 35 U.S.C. 102 and 35 U.S.C. 103 the main reference of Van Der Valk. This reference does not utilize the concept of the present invention at all in that it uses a D/A converter to produce an RF signal as shown in Figure 5. It also uses a VCO with a phase detector.

To the contrary, the present invention **directly generates** the RF signal by generating a series of pulses with rising and leading edges, the timing of which is obtained by "pulse stretching".

The key point of the present invention is that the output RF signal is created by "**direct digital generation**" with the meaning that it is generated directly to RF without the use of another block such as a D/A converter.

Claim 1 has therefore been amended to specify that the signal generating element directly generates the RF output signal from a series of pulses each having a rising edge and a falling edge and wherein the signal generating element is arranged to generate the rising and the falling edges of the pulses at a digital time determined by the delayed signal edges calculated from the input reference edge.

As set forth above the output signal generated in the prior art reference of Van Der Valk is generated using the analog components. There is no suggestion that Van Der Valk could be modified to remove these essential components and no suggestion that the above concept should be used.

It is submitted therefore that Claim 1 is properly distinguished from the prior art both under 35 USC 102 and 103 and should therefore be allowed. It is further submitted that the dependent claims remaining in this application yet further distinguish the invention from the prior art and should therefore be allowed with the allowable Claim 1.

Respectfully submitted

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CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the United States Patent and Trademark Office, Fax No. (571) 273-8300, on September 29, 2005

LYNN LEATHERDALE

Lynn Leatherdale

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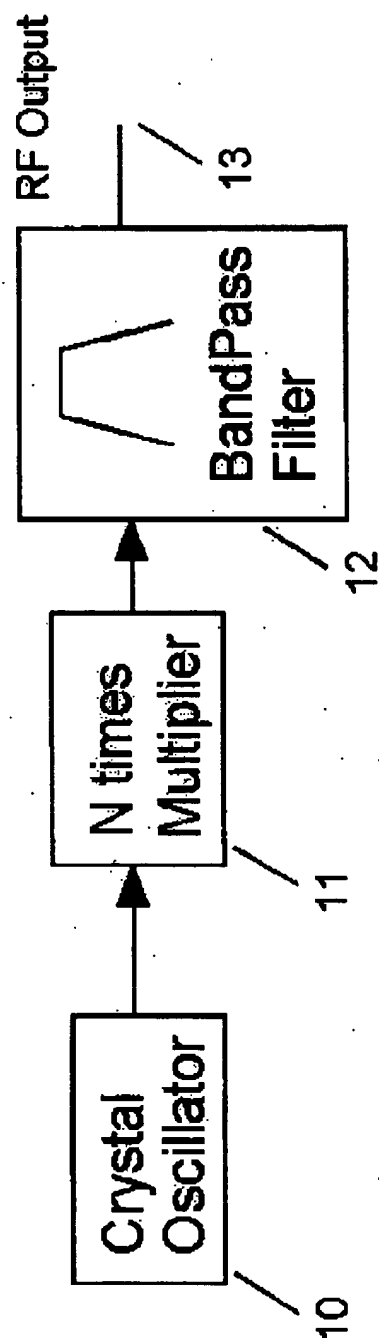


FIGURE 1

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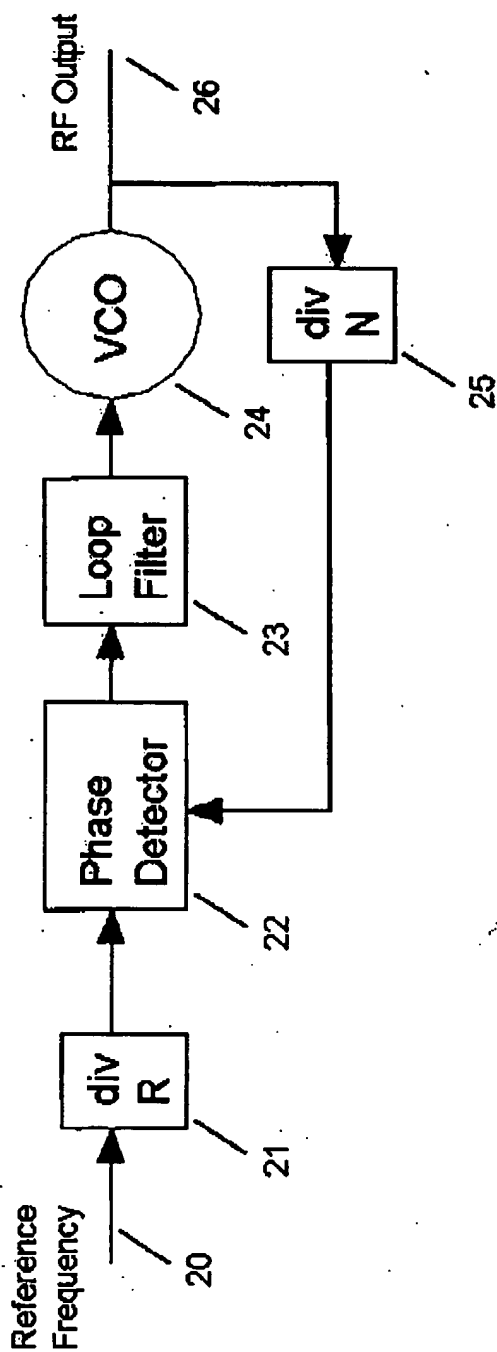


FIGURE 2

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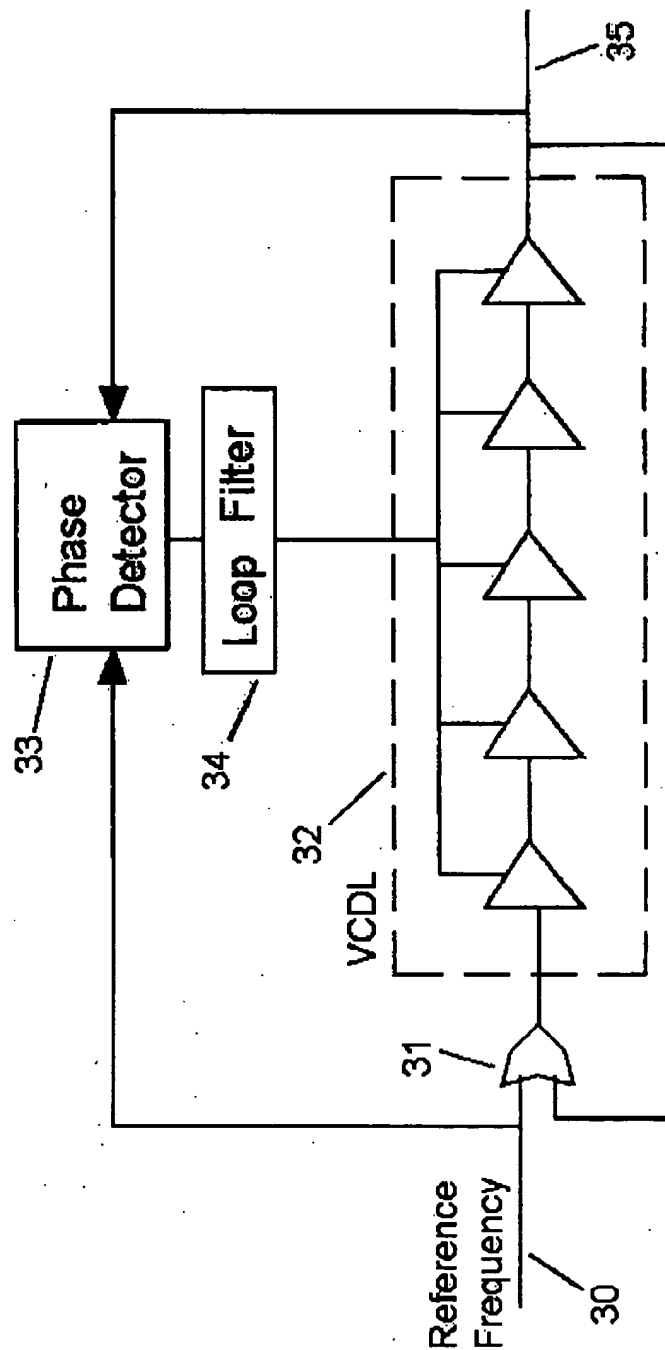


FIGURE 3

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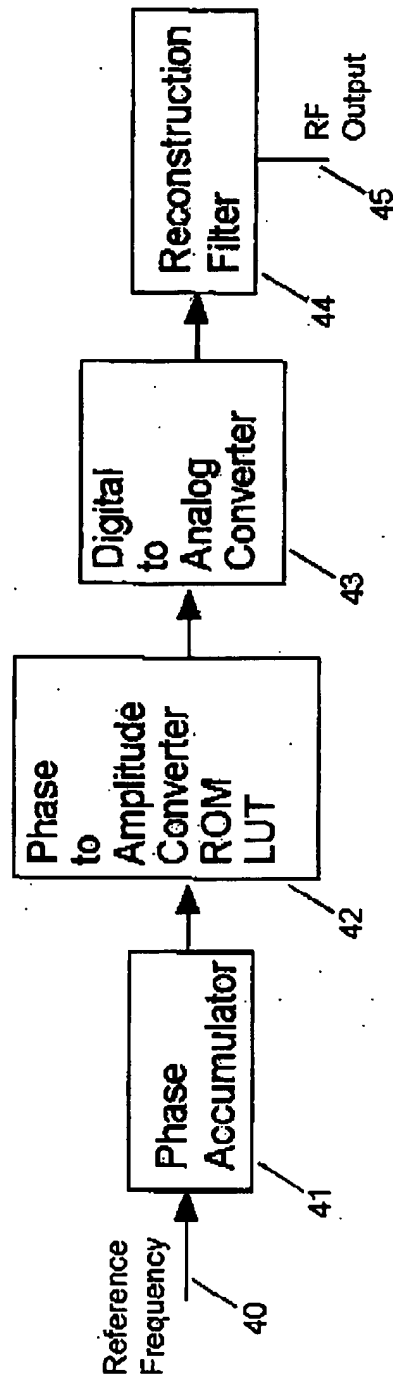


FIGURE 4

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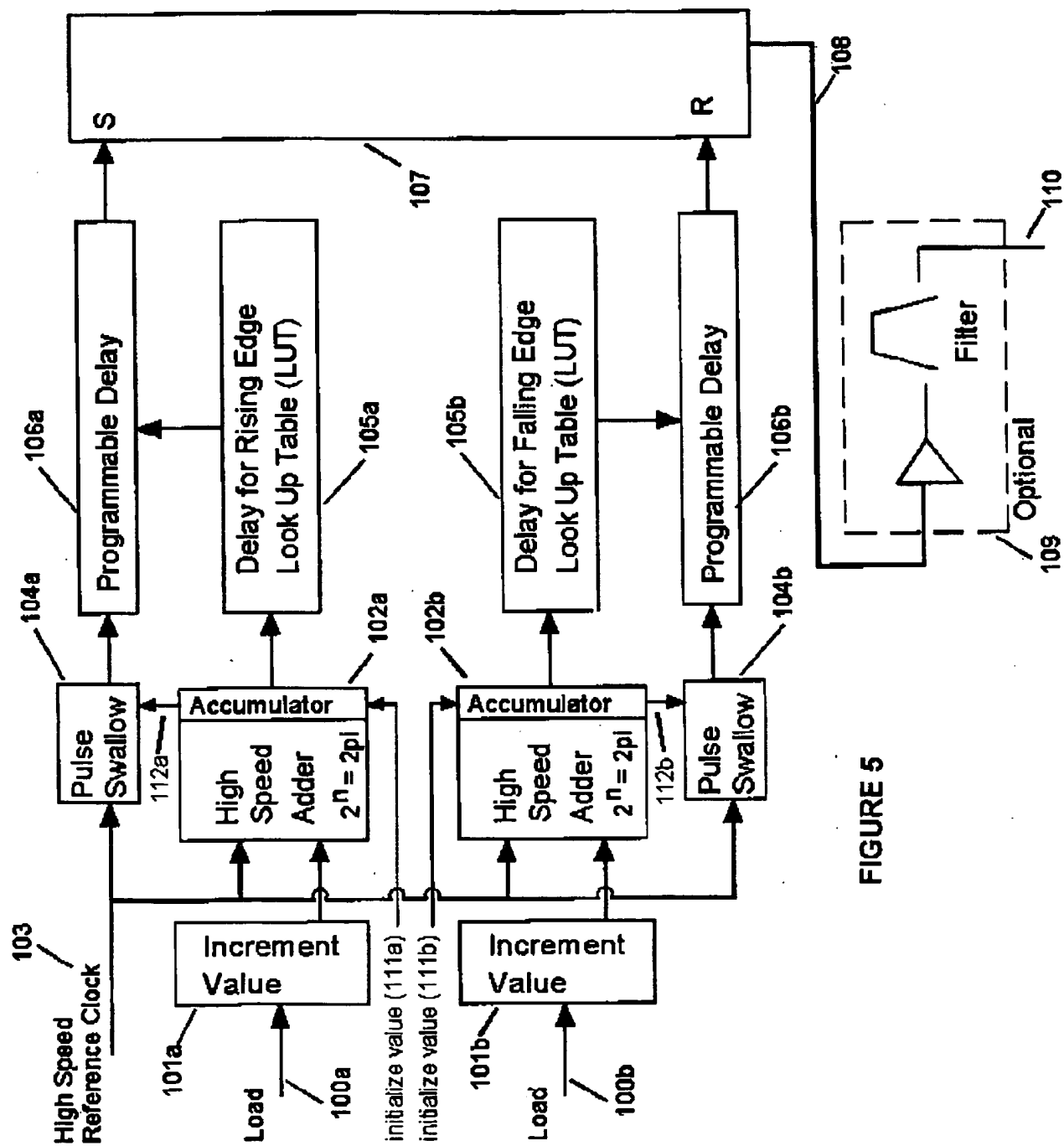


FIGURE 5

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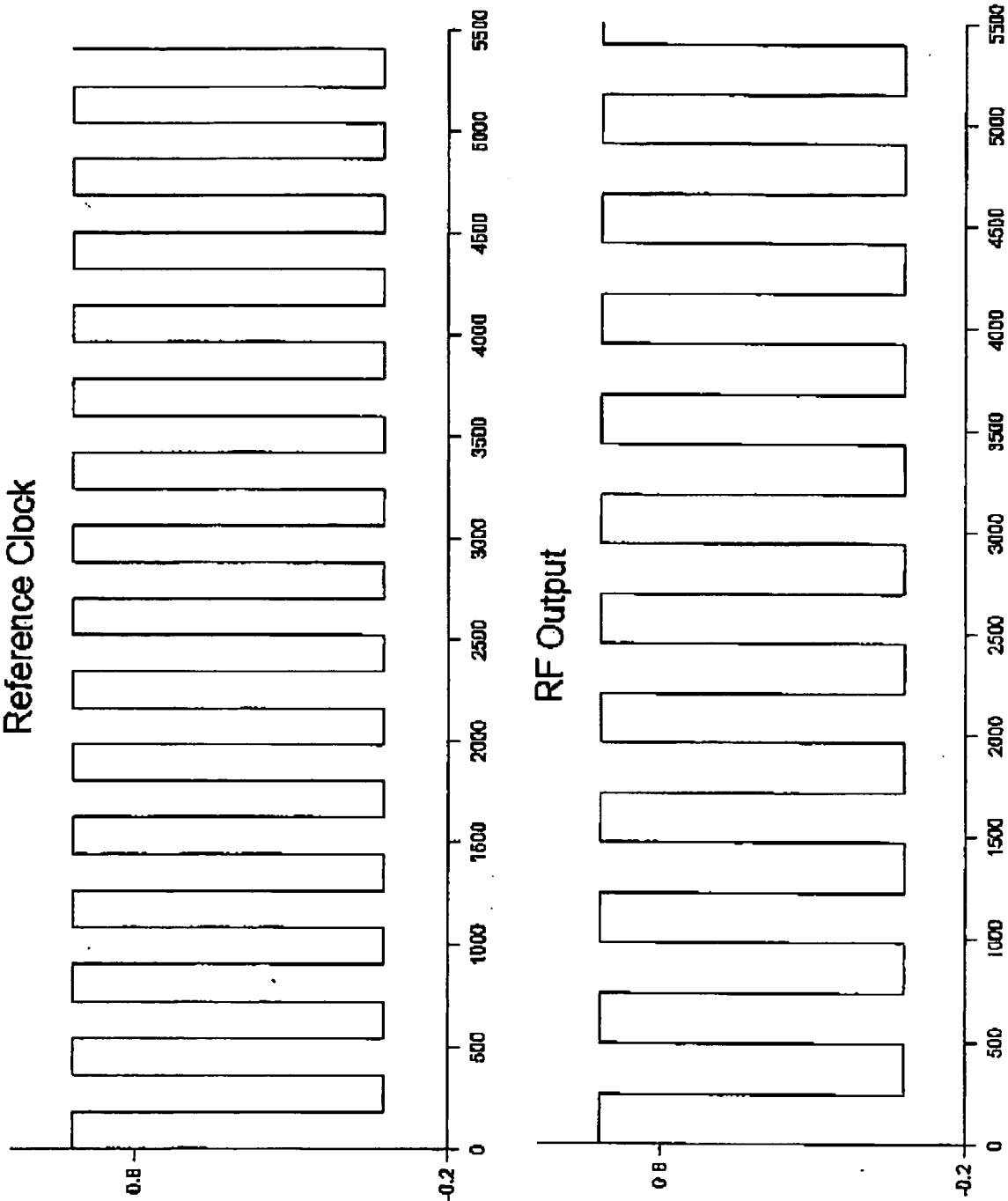


FIGURE 6